

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,576		09/24/2003	Dieter Hochrainer	1/1401	6795
28501	7590	11/01/2004		EXAMINER	
BOEHRI 900 RIDO		NGELHEIM CORPO	MITCHELL, TEENA KAY		
P. O. BOX		ROAD		ART UNIT	PAPER NUMBER
RIDGEFI	ELD, C	Γ 06877	)	3743	
		f f		DATE MAILED: 11/01/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/669,576	HOCHRAINER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Teena Mitchell	3743					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 24 Se							
	action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-21 is/are pending in the application.							
4a) Of the above claim(s) <u>8-21</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-7</u> is/are rejected.							
7) Claim(s) is/are objected to.	t e						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)⊠ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>24 September 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct							
11) The oath or declaration is objected to by the Ex	raminer. Note the attached Office	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).					
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
<ol><li>Copies of the certified copies of the prio</li></ol>		ed in this National Stage					
application from the International Burea							
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summar Paper No(s)/Mail [						
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

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#### **DETAILED ACTION**

## **Priority**

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Germany on 9/26/02. It is noted, however, that applicant has not filed a certified copy of the 102 44 795 application as required by 35 U.S.C. 119(b). Applicant has filed a copy of the Germany document but there is not a certified seal on the copy, therefore the examiner is requesting that applicant state on the record that the German reference submitted is actually a certified copy.

#### **Drawings**

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the nozzle configured as an aperture plate must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

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of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### Specification

The abstract of the disclosure is objected to because the abstract is more than one paragraph and longer than 150 words. Correction is required. See MPEP § 608.01(b).

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

## Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (e) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.

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- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

It is suggested that HEADINGS be placed throughout the disclosure as outlined above.

## Claim Objections

Claims 8-21 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should not refer to other claims in the alternative only and cannot depend from other multiple dependent claims. See MPEP § 608.01(n). Accordingly, the claims 8-21 not been further treated on the merits.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith et.al. (6,089,228).

Smith in a dry powder inhaler:

• with mouthpiece (32) fro dispersing pharmaceutical drug formulations,

- having an auxiliary energy source (338, 390) in the form of a pressure medium system,
- with a device (342) for provisioning of a powder formulation, whereby upon
  activation of the pressure medium system (338) a gaseous pressure medium
  released by the pressure medium system forms with the powder formulation
  an aerosol in such a way that the powder particles are present in dispersed
  form within the gaseous pressure medium,
- characterized in that provided in the inhaler is a nozzle (14) through which the aerosol flows before leaving the inhaler (Figs. 1, 2).

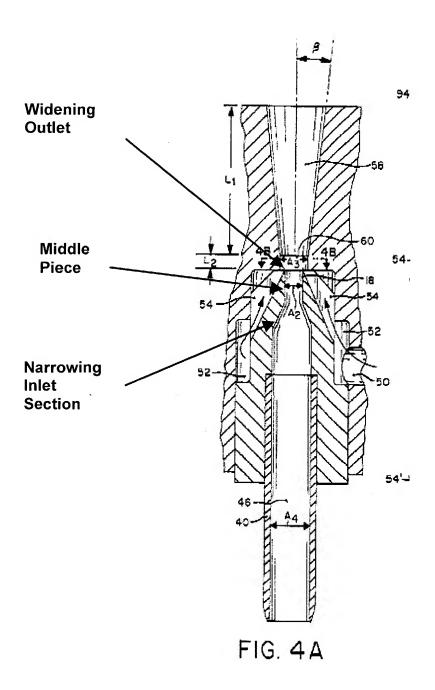
With respect to claim 2, Smith discloses that the nozzle (14) is configured as an aperture plate (Figs. 3A-4C).

With respect to claim 3, Smith discloses that the nozzle (14) exhibits a narrowing inlet section that connects with the nozzle plate (at A3).

With respect to claim 4, Smith discloses that the nozzle (14) exhibits a narrowing inlet section (see illustration of Fig. 4A below), a middle piece (see illustration of Fig. 4A below) and a widening outlet section (at 58) that connects to the middle piece.

With respect to claim 5, Smith discloses that the narrowest cross section is located in the middle piece (Fig. 4A).

With respect to claim 6, Smith discloses a laval nozzle (14; because a laval nozzle is convergent-divergent nozzle (i.e., venturi-like), the examiner is reading the nozzle of Smith to be a laval nozzle).



With respect to claim 7, Smith discloses that the narrowest cross section of the nozzle is  $100\mu m$  to  $1500~\mu m$  (Col. 14, lines 59-67).

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The balance of art is cited to show inhaler devices and laval nozzles: 2004/0035421; 2004/0124269; 6,799,571; 6,663,848; 6,595,210; 6,488,648; 6,415,991; 2001/0055709; 5,083,429; 5,147,087; 4,634,053.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teena Mitchell whose telephone number is (703) 308-4016. The examiner can normally be reached on Monday-Friday during normal business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on (703) 308-0101. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jane Middel

Teena Mitchell Examiner Art Unit 3743 October 28, 2004